

## II Advanced course in optogenetics 2015 : November 16-21, 2015

### A Training Unit International Course - Open conferences (in blue)

<b>Monday, November 16: Optogenetics : an introduction</b>		<b>Chairs: Filippo Del Bene and Sophie Vriz</b>
Amphithéâtre BDD , 11-13 rue Pierre & Marie Curie, 75005 Paris		
09:00 10:30	<b>Sophie Vriz</b> Université Paris Diderot – Paris- FR	Optogenetics: an introduction
10:30	Coffee BREAK (BDD Hall)	
11:00 12:00	<b>Sophie Vriz</b> Université Paris Diderot – Paris- FR	Photoactivable and photoswitchable fluorescent proteins Photorelease technology for control of cellular chemistry and physiology
12:00 14:00	LUNCH (Green Café)	
14:00 16:00	<b>Filippo Del Bene</b> UMR3215, Institut Curie/CNRS, FR	Fluorescence as a sensor for cellular physiology : principles and few examples
16:00 16:30	BREAK (BDD Hall)	

<b>Tuesday, November 17: Chemical approaches &amp; multi photon microscopy</b>		<b>Chairs: Filippo Del Bene and Sophie Vriz</b>
Amphithéâtre BDD , 11-13 rue Pierre & Marie Curie, 75005 Paris		
09:00 10:30	<b>Ludovic Jullien</b> Ecole Normale Supérieure, Paris - FR	Chemical approaches to photo-activation
10:30 11:00	Coffee BREAK (BDD Hall)	
11:00 12:30	<b>Arnaud Gautier</b> Ecole Normale Supérieure, Paris - FR	Fluorescent probes for cell imaging: Thinking outside the GFP toolkit
12:30 14:00	LUNCH (Green Café)	
14:00 15:30	<b>Valentina Emiliani</b> Université R. Descartes, Paris - FR	Optogenetics: what is the optimal illumination methods?
15:30 16:00	BREAK (BDD Hall)	
16:00 17:30	<b>Raphaël Candelier</b> Laboratoire Jean Perrin, Paris - FR	Light-sheet fonctionnal imaging

<b>Wednesday, November 18: Fluorescence as a sensor for cellular physiology</b>		<b>Chairs: Filippo Del Bene and Sophie Vriz</b>
Amphithéâtre BDD , 11-13 rue Pierre & Marie Curie, 75005 Paris		
09:00 10:30	<b>Claire Wyart</b> ICM - CHU Pitié Salpêtrière, Paris - FR	Monitoring neuronal activity in moving animals
10:30 11:00	Coffee BREAK (BDD Hall)	
11:00 12:30	<b>German Sumbre</b> Ecole Normale Supérieure, Paris - FR	Study of visual perception in zebrafish, using visual illusions and optogenetics
12:30 14:00	LUNCH (Green Café)	
14:00 15:30	<b>Periklis Pantazis</b> ETH, Basel - CH	Advances in whole embryo imaging: a quantitative transition is underway
15:30 16:00	BREAK (BDD Hall)	
16:00 18:00	<b>Alexander Fleischmann</b> CIRB Collège de France, Paris - FR	From the nose to the brain: Optogenetic dissection of olfactory neural circuits in mice
18:00 20:00	COCKTAIL DINNER (BDD Hall)	

<b>Thursday, November 19: Fluorescence as a sensor for cellular physiology</b>		<b>Chairs: Filippo Del Bene and Sophie Vriz</b>
Amphithéâtre BDD , 11-13 rue Pierre & Marie Curie, 75005 Paris		
09:00 10:30	<b>Mathieu Coppey</b> Institut Curie Paris - FR	Optogenetic control of intracellular processes
10:30 11:00	Coffee BREAK (BDD Hall)	
11:00 12:30	<b>Shixin Ye</b> Ecole Normale Supérieure, Paris - FR	Engineering light sensitive neuronal receptors through genetically encoded unnatural amino acids
12:30 14:00	LUNCH (Green Café)	
14:00 15:30	<b>Georg Nagel</b> University of Wuerzburg -Wuerzburg - DE	Photoreceptors for optogenetic applications
15:30 16:00	BREAK (BDD Hall)	
16:00 18:00	<b>Dirk Trauner</b> Ludwig-Maximilians-Univ. Munich - DE	Controlling Biological Pathways with Photopharmacology

<b>Friday, November 20: PRACTICAL COURSE (Amphi Marie Curie)</b>		<b>Chairs: Filippo Del Bene and Sophie Vriz</b>
Amphithéâtre BDD , 11-13 rue Pierre & Marie Curie, 75005 Paris		
10:30 11:00	Coffee BREAK (BDD Hall)	
11:00 12:30	Practical course	
12:30	LUNCH (Green Café)	
14:00	Exam for students	